



{In Archive} RE: September 25 Score changes
Mikulka, Kristine to: Alexandra Sullivan
Cc: Denessa Moses, Alyssa Quarforth

09/27/2007 11:44 AM

History: This message has been replied to and forwarded.
Archive: This message is being viewed in an archive.

Alexandra -

Of the 29,891 buildings listed, 3,652 had their
rating drop by 2 or more
points - these are the buildings affected by the
extrapolation.

(b) (5)



(b) (5)



I hope this answers your questions. Please let us know if you need anything else.

Thanks, Kristine

Kristine Mikulka
Project Manager
kristine_mikulka@sra.com
703-284-6913

-----Original Message-----

From: Sullivan.Alexandra@epamail.epa.gov
[mailto:Sullivan.Alexandra@epamail.epa.gov]
Sent: Thursday, September 27, 2007 9:10 AM
To: Mikulka, Kristine
Cc: Moses.Denessa@epamail.epa.gov;
Quarforth.Alyssa@epamail.epa.gov
Subject: September 25 Score changes
Importance: High

Kris,

(b) (5)




Thank you,

Alexandra Sullivan

U.S. EPA
ENERGY STAR

Mail Code 6202J
Washington, DC 20460
202.343.9040
sullivan.alexandra@epa.gov

(See attached file: Sept25vSept11.xls)

{In Archive} RE: September 25 Score changes 

Alexandra Sullivan to: Mikulka, Kristine

Cc: Alyssa Quarforth, Denessa Moses

09/27/2007 12:15 PM

Archive: This message is being viewed in an archive.

Kris,

Thank you for this explanation. I do have two follow-up questions:

(b) (5)



Thanks,

Alexandra Sullivan

U.S. EPA
ENERGY STAR
Mail Code 6202J
Washington, DC 20460
202.343.9040
sullivan.alexandra@epa.gov

"Mikulka, Kristine" <Kristine_Mikulka@sra.com>



"Mikulka, Kristine"
<Kristine_Mikulka@sra.com>
09/27/2007 11:44 AM

To Alexandra Sullivan/DC/USEPA/US@EPA
cc Denessa Moses/DC/USEPA/US@EPA, Alyssa
Quarforth/DC/USEPA/US@EPA
Subject RE: September 25 Score changes

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(b) (5)



(b) (5)



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Mail Code 6202J
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202.343.9040
sullivan.alexandra@epa.gov

(See attached file: Sept25vSept11.xls)



{In Archive} RE: September 25 Score changes
Mikulka, Kristine to: Alexandra Sullivan
Cc: Alyssa Quarforth, Denessa Moses

09/27/2007 01:09 PM

History: This message has been replied to.
Archive: This message is being viewed in an archive.

Alexandra -

1) The 1 point score changes are not due to the Office lookup table changing - it's due to the code that walks through the lookup table and assigns a rating.

(b) (5)



2) Site Energy would not change, since it is not extrapolated. (b) (5)

(b) (5)



Thanks, Kristine

Kristine Mikulka

Project Manager

kristine_mikulka@sra.com

703-284-6913

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U.S. EPA

ENERGY STAR

Mail Code 6202J

Washington, DC 20460

202.343.9040

sullivan.alexandra@epa.gov

"Mikulka,

Kristine"

To <Kristine_Mikulka

a@sra.com>

Alexandra

Sullivan/DC/USEPA/US@EPA

cc 09/27/2007 11:44

AM
Moses/DC/USEPA/US@EPA,

Denessa

Quarforth/DC/USEPA/US@EPA

Alyssa

Subject

25 Score changes

RE: September

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(See attached file: Sept25vSept11.xls)

{In Archive} RE: September 25 Score changes 

Alexandra Sullivan to: Mikulka, Kristine

Cc: Alyssa Quarforth, Denessa Moses

09/27/2007 02:34 PM

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I do not think these changes present any problem regarding October 1st...but I do have a couple more questions:

(b) (5)



(b) (5)

Alexandra Sullivan

U.S. EPA
ENERGY STAR
Mail Code 6202J
Washington, DC 20460
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To: Alexandra Sullivan/DC/USEPA/US@EPA
cc: Alyssa Quarforth/DC/USEPA/US@EPA, Denessa
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kristine_mikulka@sra.com

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U.S. EPA

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Washington, DC 20460

202.343.9040

sullivan.alexandra@epa.gov

"Mikulka,

Kristine"

<Kristine_Mikulka@epa.gov>

a@sra.com>

To

Alexandra

Sullivan/DC/USEPA/US@EPA

09/27/2007 11:44

CC

AM

Denessa Moses/DC/USEPA/US@EPA,

Alyssa Quarforth/DC/USEPA/US@EPA

Subject

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Importance: High

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(b) (5)



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Alexandra Sullivan

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Mail Code 6202J

Washington, DC 20460

202.343.9040

sullivan.alexandra@epa.gov

(See attached file: Sept25vSept11.xls)



Archive:

{In Archive} Fw: PM Staging - Comments and Questions

Denessa Moses to: Alyssa Quarforth, Alexandra Sullivan

09/27/2007 03:17 PM

This message is being viewed in an archive.

FYI...

----- Forwarded by Denessa Moses/DC/USEPA/US on 09/27/2007 03:17 PM -----



"Mikulka, Kristine"

<Kristine_Mikulka@sra.com>

09/27/2007 02:47 PM

To Denessa Moses/DC/USEPA/US@EPA

cc

Subject RE: PM Staging - Comments and Questions

Denessa -

Please see our comments in the attached document. There are only a few items that we will not be able to address by tomorrow for the release. We have made note of those items. Please let me know if you have any questions with our feedback.

Thank you! Kristine

-----Original Message-----

From: Mikulka, Kristine

Sent: Thursday, September 27, 2007 11:03 AM

To: 'Moses.Denessa@epamail.epa.gov'

Subject: RE: PM Staging - Comments and Questions

Importance: High

Denessa -

(b) (5)



Thanks, Kristine

Kristine Mikulka
Project Manager
kristine_mikulka@sra.com
703-284-6913

-----Original Message-----

From: Sullivan.Alexandra@epamail.epa.gov
[mailto:Sullivan.Alexandra@epamail.epa.gov]
Sent: Wednesday, September 26, 2007 4:52 PM
To: Mikulka, Kristine
Cc: Moses.Denessa@epamail.epa.gov; Quarforth.Alyssa@epamail.epa.gov
Subject: PM Staging - Comments and Questions

Kris,

Attached please find comments from Aly and me regarding PM staging. I wanted to make sure to send them right to you, as I believe that Denessa has left for today. Most of our comments should be easy to fix, such as suggested changes to terminology.

(b) (5)



Please let me know if you have any questions.

Alexandra Sullivan

U.S. EPA
ENERGY STAR
Mail Code 6202J
Washington, DC 20460
202.343.9040
sullivan.alexandra@epa.gov

(See attached file: StagingCommentsforOct1.doc) (See attached file:
PMStagingReview_AES.xls)



StagingCommentsforOct1_SRA Comments.doc



{In Archive} Re: Fw: PM Staging - Comments and Questions

Denessa Moses to: Alyssa Quarforth

Cc: Alexandra Sullivan, Kristine_Mikulka

09/27/2007 04:33 PM

Archive:

This message is being viewed in an archive.

I'm pretty sure that only the PM web pages were updated - not the PM Help. SRA was going to make the changes on the web before adding to PM Help.

Kristine, please correct me if I'm wrong.

In any case, I will thoroughly review PM Help on Friday, if available on staging, and on Sunday in the live tool.

Thanks,
Denessa

Alyssa Quarforth/DC/USEPA/US

**Alyssa
Quarforth/DC/USEPA/US**

09/27/2007 04:12 PM

To Denessa Moses/DC/USEPA/US@EPA

cc Alexandra Sullivan/DC/USEPA/US@EPA

Subject Re: Fw: PM Staging - Comments and Questions

Denessa,

In our review of PM in staging, Alexandra and I had noted that the PM help files had not been updated yet however SRA responded saying the updated PM Help is up in staging now. I just went on staging and I did not see an updated Help file. For instance, retail and wastewater space type and eligibility information is not in the Help menu.

Can SRA provide some clarification to this?

Thanks,
Aly

Alyssa Quarforth
Program Analyst, Market Sectors Group
ENERGY STAR, Commercial and Industrial Branch
Climate Protection Partnerships Division, US EPA

Mail Code: 6202J
Washington DC 20460
202.343.9604
Quarforth.Alyssa@epa.gov
Denessa Moses/DC/USEPA/US



**Denessa
Moses/DC/USEPA/US**

09/27/2007 03:17 PM

To Alyssa Quarforth/DC/USEPA/US, Alexandra
Sullivan/DC/USEPA/US

cc

Subject Fw: PM Staging - Comments and Questions



FYI...

----- Forwarded by Denessa Moses/DC/USEPA/US on 09/27/2007 03:17 PM -----



"Mikulka, Kristine"
<Kristine_Mikulka@sra.com>
09/27/2007 02:47 PM

To Denessa Moses/DC/USEPA/US@EPA
cc

Subject RE: PM Staging - Comments and Questions

Denessa -

Please see our comments in the attached document. There are only a few items that we will not be able to address by tomorrow for the release. We have made note of those items. Please let me know if you have any questions with our feedback.

Thank you! Kristine

-----Original Message-----

From: Mikulka, Kristine
Sent: Thursday, September 27, 2007 11:03 AM
To: 'Moses.Denessa@epamail.epa.gov'
Subject: RE: PM Staging - Comments and Questions
Importance: High

Denessa -

(b) (5)



Thanks, Kristine

Kristine Mikulka
Project Manager
kristine_mikulka@sra.com
703-284-6913

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Kris,

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(b) (5)

Please let me know if you have any questions.

Alexandra Sullivan

U.S. EPA
ENERGY STAR
Mail Code 6202J
Washington, DC 20460
202.343.9040
sullivan.alexandra@epa.gov

(See attached file: StagingCommentsforOct1.doc) (See attached file: PMStagingReview_AES.xls)



StagingCommentsforOct1_SRA Comments.doc



{In Archive} RE: Fw: PM Staging - Comments and Questions

Mikulka, Kristine to: Denessa Moses, Alyssa Quarforth
Cc: Alexandra Sullivan

09/27/2007 04:51 PM

Archive: This message is being viewed in an archive.

That is correct. The PM help files are actually
about to be pushed to
Staging now and should be available within the hour.

Kris

-----Original Message-----

From: Moses.Denessa@epamail.epa.gov
[mailto:Moses.Denessa@epamail.epa.gov]
Sent: Thursday, September 27, 2007 4:34 PM
To: Quarforth.Alyssa@epamail.epa.gov
Cc: Sullivan.Alexandra@epamail.epa.gov; Mikulka,
Kristine
Subject: Re: Fw: PM Staging - Comments and Questions

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Thanks,
Denessa

Alyssa
Quarforth/DC/USE
PA/US

To

Denessa

Moses/DC/USEPA/US@EPA

09/27/2007 04:12

cc

PM

Alexandra

Sullivan/DC/USEPA/US@EPA

Subject

Re: Fw: PM

Staging - Comments and

Questions(Document link: Denessa

Moses)

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Alyssa Quarforth
Program Analyst, Market Sectors Group
ENERGY STAR, Commercial and Industrial Branch
Climate Protection Partnerships Division, US EPA

Mail Code: 6202J
Washington DC 20460
202.343.9604
Quarforth.Alyssa@epa.gov

Denessa
Moses/DC/USEPA/U
S

To

Quarforth/DC/USEPA/US,
09/27/2007 03:17
Sullivan/DC/USEPA/US
PM

cc

Alyssa

Alexandra

Subject

- Comments and

Fw: PM Staging
Questions

FYI...

----- Forwarded by Denessa Moses/DC/USEPA/US on
09/27/2007 03:17 PM

To "Mikulka,
Kristine"
<Kristine_Mikulka@epa.gov>
a@sra.com> Denessa
Moses/DC/USEPA/US@EPA
cc 09/27/2007 02:47
PM
Subject RE: PM Staging
- Comments and Questions

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There are only a few
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Thank you! Kristine

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Subject: RE: PM Staging - Comments and Questions
Importance: High

Denessa -

(b) (5)



(b) (5)



Thanks, Kristine

Kristine Mikulka
Project Manager
kristine_mikulka@sra.com
703-284-6913

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(b) (5)



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Alexandra Sullivan

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Mail Code 6202J
Washington, DC 20460
202.343.9040
sullivan.alexandra@epa.gov

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attached file:
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(See attached file: StagingCommentsforOct1_SRA
Comments.doc)



{In Archive} RE: September 25 Score changes
Mikulka, Kristine to: Alexandra Sullivan
Cc: Alyssa Quarforth, Denessa Moses

09/28/2007 06:52 AM

History: This message has been replied to and forwarded.
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All -

I have attached the updated score comparison report
and put the answers
to the two questions below. Please let me know if
you need anything
else.

Answers to the two questions:

(b) (5)



(b) (5)



Kristine Mikulka
Project Manager
kristine_mikulka@sra.com
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Sent: Thursday, September 27, 2007 2:34 PM
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Moses.Denessa@epamail.epa.gov
Subject: RE: September 25 Score changes

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I do not think these changes present any problem
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(b) (5)



(b) (5)

Alexandra Sullivan

U.S. EPA
ENERGY STAR
Mail Code 6202J
Washington, DC 20460
202.343.9040
sullivan.alexandra@epa.gov

To "Mikulka,
Kristine"
<Kristine_Mikulk
a@sra.com> Alexandra
Sullivan/DC/USEPA/US@EPA
09/27/2007 01:09
cc PM Alyssa
Quarforth/DC/USEPA/US@EPA, Denessa
Moses/DC/USEPA/US@EPA
Subject
25 Score changes RE: September

Alexandra -

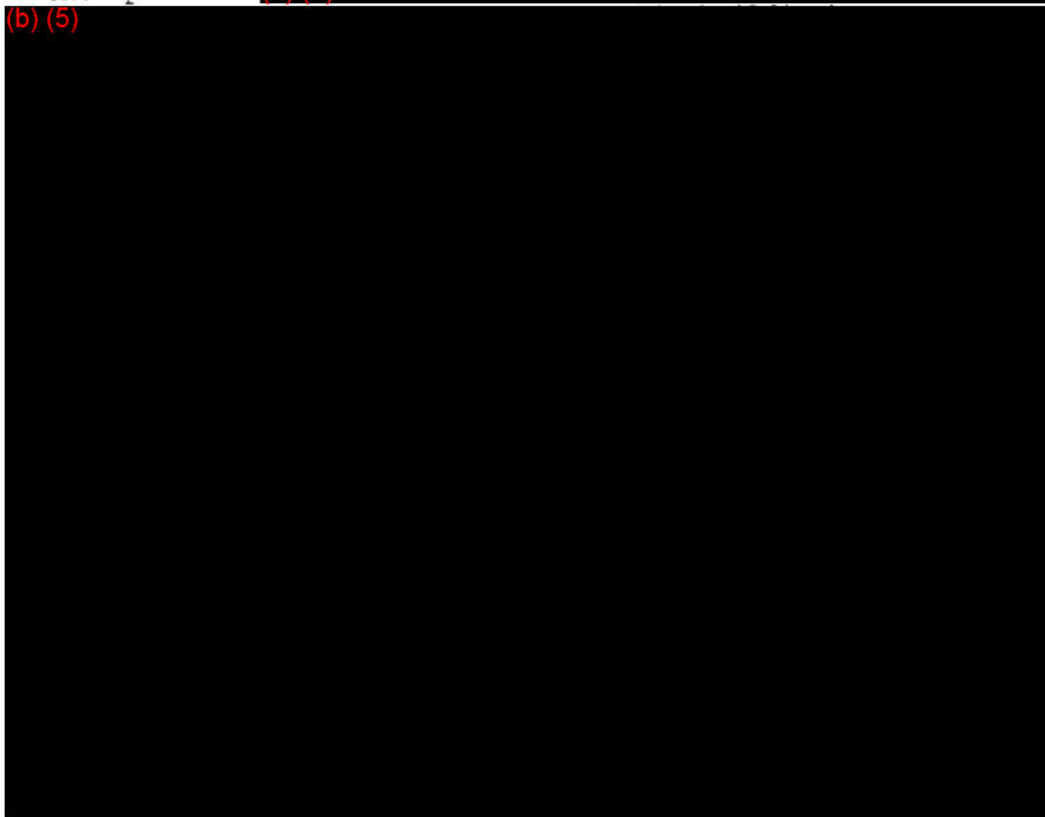
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(b) (5)

(b) (5)

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2) Site Energy would not change, since it is not extrapolated. (b) (5)

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Project Manager

kristine_mikulka@sra.com

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(b) (5)



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Alexandra Sullivan

U.S. EPA

ENERGY STAR

Mail Code 6202J

Washington, DC 20460

202.343.9040

sullivan.alexandra@epa.gov

"Mikulka,

Kristine"

To <Kristine_Mikulka@epa.gov>

a@sra.com>

Alexandra

Sullivan/DC/USEPA/US@EPA

cc 09/27/2007 11:44

AM
Moses/DC/USEPA/US@EPA,

Denessa

Alyssa

Quarforth/DC/USEPA/US@EPA

Subject

25 Score changes

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Subject: September 25 Score changes

Importance: High

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(b) (5)

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U.S. EPA

ENERGY STAR

Mail Code 6202J

Washington, DC 20460

202.343.9040

sullivan.alexandra@epa.gov

(See attached file: Sept25vSept11.xls)



sc_20070928.piz

{In Archive} RE: September 25 Score changes 

Alexandra Sullivan to: Mikulka, Kristine

Cc: Alyssa Quarforth, Denessa Moses

09/28/2007 08:47 AM

Archive: This message is being viewed in an archive.

Kris,

Thank you for these explanations and the latest score change report.

Alexandra Sullivan

U.S. EPA
ENERGY STAR
Mail Code 6202J
Washington, DC 20460
202.343.9040
sullivan.alexandra@epa.gov

"Mikulka, Kristine" <Kristine_Mikulka@sra.com>



"Mikulka, Kristine"
<Kristine_Mikulka@sra.com>
09/28/2007 06:51 AM

To Alexandra Sullivan/DC/USEPA/US@EPA
cc Alyssa Quarforth/DC/USEPA/US@EPA, Denessa
Moses/DC/USEPA/US@EPA
Subject RE: September 25 Score changes

All -

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Answers to the two questions:

(b) (5)



(b) (5)



Kristine Mikulka
Project Manager
kristine_mikulka@sra.com
703-284-6913

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"Mikulka,
Kristine"
<Kristine_Mikulka@sra.com>

09/27/2007 01:09
PM

Alexandra
Sullivan/DC/USEPA/US@EPA

To

CC
Alyssa Quarforth/DC/USEPA/US@EPA,
Denessa Moses/DC/USEPA/US@EPA

Subject

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1) The 1 point score changes are not due to the Office lookup table changing - it's due to the code that walks through the lookup table and assigns a rating.

(b) (5)



2) Site Energy would not change, since it is not extrapolated (b) (5)

(b) (5)



Thanks, Kristine

Kristine Mikulka

Project Manager

kristine_mikulka@sra.com

703-284-6913

-----Original Message-----

From: Sullivan.Alexandra@epamail.epa.gov [mailto:Sullivan.Alexandra@epamail.epa.gov]
Sent: Thursday, September 27, 2007 12:15 PM
To: Mikulka, Kristine
Cc: Quarforth.Alyssa@epamail.epa.gov; Moses.Denessa@epamail.epa.gov
Subject: RE: September 25 Score changes

Kris,

Thank you for this explanation. I do have two follow-up questions:

(b) (5)



(b) (5)



Thanks,

Alexandra Sullivan

U.S. EPA

ENERGY STAR

Mail Code 6202J

Washington, DC 20460

202.343.9040

sullivan.alexandra@epa.gov

"Mikulka,

Kristine"

<Kristine_Mikulka

a@sra.com>

Alexandra

Sullivan/DC/USEPA/US@EPA

09/27/2007 11:44

To

cc

AM

Denessa Moses/DC/USEPA/US@EPA,

Alyssa Quarforth/DC/USEPA/US@EPA

Subject

RE: September 25 Score changes

Alexandra -

Of the 29,891 buildings listed, 3,652 had their rating drop by 2 or more points - these are the buildings affected by the extrapolation.

(b) (5)



(b) (5)



(b) (5)



I hope this answers your questions. Please let us know if you need anything else.

Thanks, Kristine

Kristine Mikulka

Project Manager

kristine_mikulka@sra.com

703-284-6913

-----Original Message-----

From: Sullivan.Alexandra@epamail.epa.gov

[mailto:Sullivan.Alexandra@epamail.epa.gov]

Sent: Thursday, September 27, 2007 9:10 AM

To: Mikulka, Kristine

Cc: Moses.Denessa@epamail.epa.gov; Quarforth.Alyssa@epamail.epa.gov

Subject: September 25 Score changes

Importance: High

Kris,

(b) (5)



Thank you,

Alexandra Sullivan

U.S. EPA

ENERGY STAR

Mail Code 6202J

Washington, DC 20460

202.343.9040

sullivan.alexandra@epa.gov

(See attached file: Sept25vSept11.xls)



sc_20070928.piz

Sullivan, Alexandra

From: Sullivan, Alexandra
Sent: Monday, October 21, 2013 2:46 PM
To: Barton, Laura
Subject: RE: metric calculation spreadsheet

Laura,

Okay – sounds good. If we still return a 1 for a value that is even higher, then I think we're okay.

Thanks,

Alexandra Sullivan

U.S. EPA
ENERGY STAR
Mail Code 6202J
Washington, DC 20460
202.343.9040
sullivan.alexandra@epa.gov

From: Barton, Laura [mailto:Laura_Barton@sra.com]
Sent: Monday, October 21, 2013 2:44 PM
To: Sullivan, Alexandra
Subject: RE: metric calculation spreadsheet

I haven't done a ton of testing yet, but so far I am not getting any 500 errors. (b) (5)

(b) (5)

If you are going to be at SRA tomorrow maybe we can look at it tomorrow.

From: Sullivan, Alexandra [<mailto:Sullivan.Alexandra@epa.gov>]
Sent: Monday, October 21, 2013 2:17 PM
To: Barton, Laura
Subject: RE: metric calculation spreadsheet

Laura,

(b) (5)

Thanks,

Alexandra Sullivan

U.S. EPA
ENERGY STAR
Mail Code 6202J
Washington, DC 20460
202.343.9040
sullivan.alexandra@epa.gov

From: Barton, Laura [mailto:Laura_Barton@sra.com]
Sent: Monday, October 21, 2013 2:06 PM
To: Sullivan, Alexandra
Subject: RE: metric calculation spreadsheet

I will go ahead and make the reference data changes and this should fix it for every type of lookup table. I am going to hold off making any of my changes until after tonight's release.

From: Sullivan, Alexandra [<mailto:Sullivan.Alexandra@epa.gov>]
Sent: Saturday, October 19, 2013 2:32 PM
To: Barton, Laura
Subject: RE: metric calculation spreadsheet

Laura,

(b) (5)

A large black rectangular redaction box covers the body of the email, starting below the signature and ending above the next email's header.

Thanks,

Alexandra Sullivan

U.S. EPA
ENERGY STAR
Mail Code 6202J
Washington, DC 20460
202.343.9040
sullivan.alexandra@epa.gov

From: Barton, Laura [mailto:Laura_Barton@sra.com]
Sent: Friday, October 18, 2013 3:18 PM
To: Sullivan, Alexandra
Subject: RE: metric calculation spreadsheet

Alexandra,

(b) (5)

A large black rectangular redaction box covers the body of the email, starting below the signature and ending at the bottom of the page.

Thanks,
-Laura

From: Sullivan, Alexandra [<mailto:Sullivan.Alexandra@epa.gov>]
Sent: Friday, October 18, 2013 1:08 PM
To: Barton, Laura
Subject: RE: metric calculation spreadsheet

Laura,

(b) (5)



Thanks,

Alexandra Sullivan

U.S. EPA
ENERGY STAR
Mail Code 6202J
Washington, DC 20460
202.343.9040
sullivan.alexandra@epa.gov

From: Barton, Laura [mailto:Laura_Barton@sra.com]
Sent: Friday, October 18, 2013 12:55 PM
To: Sullivan, Alexandra
Subject: RE: metric calculation spreadsheet

Alexandra,

(b) (5)



Thanks,
-Laura

From: Sullivan, Alexandra [<mailto:Sullivan.Alexandra@epa.gov>]
Sent: Friday, October 18, 2013 8:30 AM
To: Barton, Laura
Subject: RE: metric calculation spreadsheet

Laura,

Okay – sounds good to me.

Thanks,

Alexandra Sullivan

U.S. EPA
ENERGY STAR
Mail Code 6202J
Washington, DC 20460
202.343.9040
sullivan.alexandra@epa.gov

From: Barton, Laura [mailto:Laura_Barton@sra.com]
Sent: Friday, October 18, 2013 8:03 AM
To: Sullivan, Alexandra
Subject: RE: metric calculation spreadsheet

(b) (5)



Thanks,
-Laura

From: Sullivan, Alexandra [<mailto:Sullivan.Alexandra@epa.gov>]
Sent: Thursday, October 17, 2013 5:14 PM
To: Barton, Laura
Subject: RE: metric calculation spreadsheet

Laura,

Here is my revised spreadsheet.

(b) (5)



let me know what you think,

Alexandra Sullivan

U.S. EPA
ENERGY STAR
Mail Code 6202J
Washington, DC 20460
202.343.9040
sullivan.alexandra@epa.gov

From: Barton, Laura [mailto:Laura_Barton@sra.com]
Sent: Thursday, October 17, 2013 4:49 PM

To: Sullivan, Alexandra
Subject: RE: metric calculation spreadsheet

Here is the new spreadsheet

From: Sullivan, Alexandra [<mailto:Sullivan.Alexandra@epa.gov>]
Sent: Thursday, October 17, 2013 4:26 PM
To: Barton, Laura
Subject: RE: metric calculation spreadsheet

Laura,

Here is my spreadsheet. (b) (5)

(b) (5)



Thanks,

Alexandra Sullivan

U.S. EPA
ENERGY STAR
Mail Code 6202J
Washington, DC 20460
202.343.9040
sullivan.alexandra@epa.gov

From: Barton, Laura [mailto:Laura_Barton@sra.com]
Sent: Thursday, October 17, 2013 3:37 PM

To: Sullivan, Alexandra
Subject: RE: metric calculation spreadsheet

Hi Alexandra,
I just added the HDD and CDD to the report.

-Laura

From: Sullivan, Alexandra [<mailto:Sullivan.Alexandra@epa.gov>]
Sent: Thursday, October 17, 2013 3:18 PM
To: Barton, Laura
Subject: RE: metric calculation spreadsheet

Laura,

(b) (5)



Thanks,

Alexandra Sullivan

U.S. EPA
ENERGY STAR
Mail Code 6202J
Washington, DC 20460
202.343.9040
sullivan.alexandra@epa.gov

From: Barton, Laura [mailto:Laura_Barton@sra.com]
Sent: Monday, September 30, 2013 4:22 PM
To: Sullivan, Alexandra
Subject: RE: metric calculation spreadsheet

Here is also the property use characteristics for the property in case you need it.

From: Sullivan, Alexandra [<mailto:Sullivan.Alexandra@epa.gov>]
Sent: Monday, September 30, 2013 3:28 PM
To: Barton, Laura
Subject: RE: metric calculation spreadsheet

Laura,

I would recommend we use:

- Site Energy
- Source Energy
- Site EUI
- Source EUI
- Total GHG Emissions
- Score

- Target Score
- Target Site EUI
- Target Source EUI
- Target GHG Emissions

- Median Score
- Median Site EUI
- Median Source EUI
- Median GHG Emissions

Do you have a property in mind or do you want me to create a property (or two) and compute these items?

Thanks,

Alexandra Sullivan

U.S. EPA
ENERGY STAR
Mail Code 6202J
Washington, DC 20460
202.343.9040
sullivan.alexandra@epa.gov

From: Barton, Laura [mailto:Laura_Barton@sra.com]
Sent: Monday, September 30, 2013 11:24 AM
To: Sullivan, Alexandra
Subject: metric calculation spreadsheet

Hey Alexandra,

I have two test property that are Multiple space types where at least one is an LN based space type that I want to put into a report for you and have you look at. What metrics would you like in the spreadsheet to determine whether the score calculation and target calculations are working correctly?

Thanks,
-Laura

Sullivan, Alexandra

From: Sullivan, Alexandra
Sent: Monday, June 09, 2014 5:10 PM
To: Frasinianu, Catalin; Connella, Debra
Subject: Score Requirements
Attachments: Metrics Requirements_Score_RedLine.docx

Catalin, Debra,

Attached is my working (red line) version of the requirements document, addressing your comments. Mostly, this is straightforward. But, there are a few questions:

(b) (5)



Please note that because of track changes some of the spacing looks odd. I will (obviously) fix this when we confirm these four questions and I move to a final draft.

Finally, if you notice any other requested changes, please let me know.

Thanks!

Alexandra Sullivan

U.S. EPA
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202.343.9040
sullivan.alexandra@epa.gov

Sullivan, Alexandra

From: Sullivan, Alexandra
Sent: Tuesday, June 10, 2014 4:02 PM
To: Connella, Debra; Frasinianu, Catalin
Subject: RE: Score Requirements

Debra,

Thanks for the update.

(b) (5)



Thanks,

Alexandra Sullivan

U.S. EPA
ENERGY STAR
Mail Code 6202J
Washington, DC 20460
202.343.9040
sullivan.alexandra@epa.gov

From: Connella, Debra [mailto:Debra_Connella@sra.com]
Sent: Tuesday, June 10, 2014 1:11 PM
To: Sullivan, Alexandra; Frasinianu, Catalin
Subject: RE: Score Requirements

Sorry – the property is on Production not test.

From: Connella, Debra
Sent: Tuesday, June 10, 2014 1:10 PM
To: 'Sullivan, Alexandra'; Frasinianu, Catalin
Subject: RE: Score Requirements

(b) (5)



From: Sullivan, Alexandra [mailto:Sullivan.Alexandra@epa.gov]
Sent: Tuesday, June 10, 2014 11:59 AM

To: Connella, Debra; Frasinianu, Catalin

Cc: King, Lia

Subject: RE: Score Requirements

Lia –

Can you update the requirements on the “My Property” page to indicate that Wastewater Treatment Plant is able to receive a score at the campus level? This is how the score requirement works and is currently how the tools is coded.

Debra, Catalin -

Here is our status:

1. **Page 3 – Wastewater Treatment is listed as Category A** (can get a multi-building score). Confirmed behavior. Lia to modify requirement on My Property Page Debra had a question about this
2. **Page 7/Item 2.c** – Debra to test.
3. **Page 10 – Office % Heated** – Researching with Asha.
4. **Page 29 – LN Source Table** – Catalin confirmed. Issue closed.

Thanks,

Alexandra Sullivan

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Mail Code 6202J
Washington, DC 20460
202.343.9040
sullivan.alexandra@epa.gov

From: Connella, Debra [mailto:Debra_Connella@sra.com]

Sent: Tuesday, June 10, 2014 11:50 AM

To: Frasinianu, Catalin; Sullivan, Alexandra

Cc: King, Lia

Subject: RE: Score Requirements

For #1, we just need to have the requirements on the My Property page updated by Lia.

I sent Asha a note asking if she knew about #3.

From: Frasinianu, Catalin

Sent: Tuesday, June 10, 2014 11:36 AM

To: Connella, Debra; Sullivan, Alexandra

Subject: RE: Score Requirements

#1 - WWTP is Type A - it can receive a score regardless of whether it is a partial, single or multi-building property.

#3 – I do not know where the requirement is documented – I think we used the values from PM Classic

#4 – No special processing is done when Ln(Source Energy) is 0, thus the energy is 1.0

From: Connella, Debra

Sent: Tuesday, June 10, 2014 9:40 AM

To: Sullivan, Alexandra; Frasinianu, Catalin

Subject: RE: Score Requirements

I will test the two items. I could not find anything on #3 – not sure if it is documented anywhere in upgrade.

From: Sullivan, Alexandra [<mailto:Sullivan.Alexandra@epa.gov>]
Sent: Monday, June 09, 2014 5:10 PM
To: Frasinianu, Catalin; Connella, Debra
Subject: Score Requirements

Catalin, Debra,

Attached is my working (red line) version of the requirements document, addressing your comments. Mostly, this is straightforward. But, there are a few questions:

(b) (5)



Please note that because of track changes some of the spacing looks odd. I will (obviously) fix this when we confirm these four questions and I move to a final draft.

Finally, if you notice any other requested changes, please let me know.

Thanks!

Alexandra Sullivan

U.S. EPA
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202.343.9040
sullivan.alexandra@epa.gov

Sullivan, Alexandra

From: Sullivan, Alexandra
Sent: Wednesday, August 20, 2014 10:08 AM
To: Fitch, Tyler
Cc: Lisauskas, Sara; Cohen, Jonathan
Subject: RE: R-Squared Analysis, continued

Tyler,

Thanks for the summary – makes sense to me.

I think we should go through and make this adjustment to properly weight, and update the technical descriptions with the corrected value. So, when we talk today we can outline a timeframe for this work.

Thanks,

Alexandra Sullivan

U.S. EPA
ENERGY STAR
Mail Code 6202J
Washington, DC 20460
202.343.9040
sullivan.alexandra@epa.gov

From: Fitch, Tyler [mailto:Tyler.Fitch@icfi.com]
Sent: Tuesday, August 19, 2014 5:13 PM
To: Sullivan, Alexandra
Cc: Lisauskas, Sara; Cohen, Jonathan
Subject: R-Squared Analysis, continued

Hi Alexandra,

I've continued to look into the issue Jonathan Cohen identified (b) (5) and I'd like to offer a quick rundown of Jonathan's findings, results across other space types, and recommendations for moving forward.

(b) (5)



(b) (5)



Thanks,

Tyler

TYLER FITCH | Research Assistant | 703.225.2865 (o) | tyler.fitch@icfi.com | icfi.com
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Sullivan, Alexandra

From: Sullivan, Alexandra
Sent: Monday, September 29, 2014 5:05 PM
To: Frasinianu, Catalin; Connella, Debra
Cc: Tatum, David
Subject: RE: Data Center Question

Great – thanks!

I think this is implicit in the requirements, but if you'd like to see a note of clarification anywhere, please let me know.

Thanks,

Alexandra Sullivan

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Mail Code 6202J
Washington, DC 20460
202.343.9040
sullivan.alexandra@epa.gov

From: Frasinianu, Catalin [mailto:Catalin_Frasinianu@sra.com]
Sent: Monday, September 29, 2014 3:04 PM
To: Sullivan, Alexandra; Connella, Debra
Cc: Tatum, David
Subject: RE: Data Center Question

Question #1: Your understanding is correct – I created Property ID: 4161533 in Production for the 3 month scenario (Data Center only) and I got the same score as the one in the spreadsheet.

From: Sullivan, Alexandra [<mailto:Sullivan.Alexandra@epa.gov>]
Sent: Monday, September 29, 2014 2:00 PM
To: Connella, Debra; Frasinianu, Catalin
Cc: Tatum, David
Subject: Data Center Question

Hi Catalin, Debra,

(b) (5)



(b) (5)



There is no need to change right now, I just want to make sure I understand what is currently happening.

Thanks!

Alexandra Sullivan

U.S. EPA
ENERGY STAR
Mail Code 6202J
Washington, DC 20460
202.343.9040
sullivan.alexandra@epa.gov

Sullivan, Alexandra

From: Sullivan, Alexandra
Sent: Thursday, October 09, 2014 1:19 PM
To: Fitch, Tyler
Cc: Lisauskas, Sara
Subject: RE: R-squared Table
Attachments: 257_Lookup_AltR2.xls

Tyler,

Thanks for the update. (b) (5)

(b) (5)

Thanks,

Alexandra Sullivan

U.S. EPA
ENERGY STAR
Mail Code 6202J
Washington, DC 20460
202.343.9040
sullivan.alexandra@epa.gov

From: Fitch, Tyler [<mailto:Tyler.Fitch@icfi.com>]
Sent: Thursday, October 09, 2014 10:28 AM
To: Sullivan, Alexandra
Cc: Lisauskas, Sara
Subject: RE: R-squared Table

Alexandra,

(b) (5)

(b) (5)

(b) (5)

Looking forward to discussing this with you today!

Thanks,

Tyler

TYLER FITCH | Research Assistant | 703.225.2865 (o) | tyler.fitch@icfi.com | icfi.com
ICF INTERNATIONAL | 9300 Lee Highway, Fairfax, VA 22031 USA
Connect with us on [social media](#).

From: Sullivan, Alexandra [<mailto:Sullivan.Alexandra@epa.gov>]
Sent: Thursday, September 25, 2014 12:15 PM

To: Lisauskas, Sara
Cc: Fitch, Tyler
Subject: RE: R-squared Table

Hi Sara,

Attached please find my file with the R2 values (main file =R2Corrections_Sullivan_20140925). There are a few differences I'd like to reconcile:

(b) (5)



Thanks,

Alexandra Sullivan

U.S. EPA
ENERGY STAR
Mail Code 6202J
Washington, DC 20460
202.343.9040
sullivan.alexandra@epa.gov

From: Lisauskas, Sara [<mailto:Sara.Lisauskas@icfi.com>]

Sent: Thursday, September 18, 2014 10:56 AM

To: Sullivan, Alexandra

Cc: Fitch, Tyler
Subject: R-squared Table

Alexandra,

Attached is a table with the R-squared source values calculated with the new weighted approach. Tyler is still having a little trouble with replicating the hotel value. I'll work with him after our call today to see if we can figure it out. If not, we'll reach out to you for some help.

Sara

SARA LISAUSKAS | Senior Manager | 978.358.7680 (o) | sara.lisauskas@icfi.com | icfi.com
ICF INTERNATIONAL | 100 Cambridgepark Drive, Cambridge, MA 02140 | 617.913.0564 (m)
Connect with us on [social media](#).

Sullivan, Alexandra

From: Sullivan, Alexandra
Sent: Friday, November 21, 2014 9:04 AM
To: 'Cohen, Jonathan'; 'Elliott, Douglas'; Lisauskas, Sara; 'Fitch, Tyler'; Schnitzer, Andrea
Subject: Final Files with Alpha and Beta
Attachments: Retail_Lookup_AltR2.xls; Final_Lookup_498_AltR2.xls

All,

I apologize for not sending these earlier. I had a lot of meetings on Wednesday and Thursday and when I woke up this morning I realized... eek! I need to send the ICF team those excel files 😊

These are not the “original” versions because as Sara and Tyler know we re-computed the R2 in units of source energy. So, I’m sending you my original files with that addition, from earlier this year. I haven’t touched the Lookup Table (alpha, beta) calculations since they were originally done and I double-checked that they match the published values in the PDF technical descriptions. So this is the correct reference to use if we want greater precision on those figures.

Please let me know if you have any questions.

Thanks,

Alexandra Sullivan

U.S. EPA
ENERGY STAR
Mail Code 6202J
Washington, DC 20460
202.343.9040
sullivan.alexandra@epa.gov

Sullivan, Alexandra

From: Sullivan, Alexandra
Sent: Friday, November 14, 2014 3:24 PM
To: 'Fitch, Tyler'
Cc: Lisauskas, Sara
Subject: RE: Technical Descriptions (b) (5)

Tyler,

Great – I think we can consider this done!

I've put through a CR to our web team.

Also, I realize that we have 3 Canadian documents. So, I've explained the issue to Michel and asked him to take care of those at his convenience.

Thanks,

Alexandra Sullivan

U.S. EPA
ENERGY STAR
Mail Code 6202J
Washington, DC 20460
202.343.9040
sullivan.alexandra@epa.gov

From: Fitch, Tyler [<mailto:Tyler.Fitch@icfi.com>]
Sent: Thursday, November 13, 2014 12:20 PM
To: Sullivan, Alexandra
Cc: Lisauskas, Sara
Subject: RE: Technical Descriptions (b) (5)

Hi Alexandra,

We've completed a final review of the technical descriptions for particular space types and believe them to be ready for publishing. We did have a few changes to the Residence Hall, Retail, Supermarket, Senior Care, and Wastewater documents—our changes are included with yours, below. We'll send all of the documents, in a zipped archive, via FTP momentarily.

Thanks very much,

Tyler

TYLER FITCH | Research Assistant | 703.225.2865 (o) | tyler.fitch@icfi.com | icfi.com
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Connect with us on [social media](#).

From: Sullivan, Alexandra [<mailto:Sullivan.Alexandra@epa.gov>]
Sent: Friday, October 31, 2014 5:58 PM
To: Fitch, Tyler

Cc: Lissauskas, Sara

Subject: RE: Technical Descriptions (b) (5)

Tyler,

Okay – I think these are basically ready for posting. (b) (5)

(b) (5)

(b) (5)



Thanks,

Alexandra Sullivan

U.S. EPA
ENERGY STAR
Mail Code 6202J
Washington, DC 20460
202.343.9040
sullivan.alexandra@epa.gov


From: Fitch, Tyler [<mailto:Tyler.Fitch@icfi.com>]

Sent: Thursday, October 23, 2014 11:49 AM

To: Sullivan, Alexandra

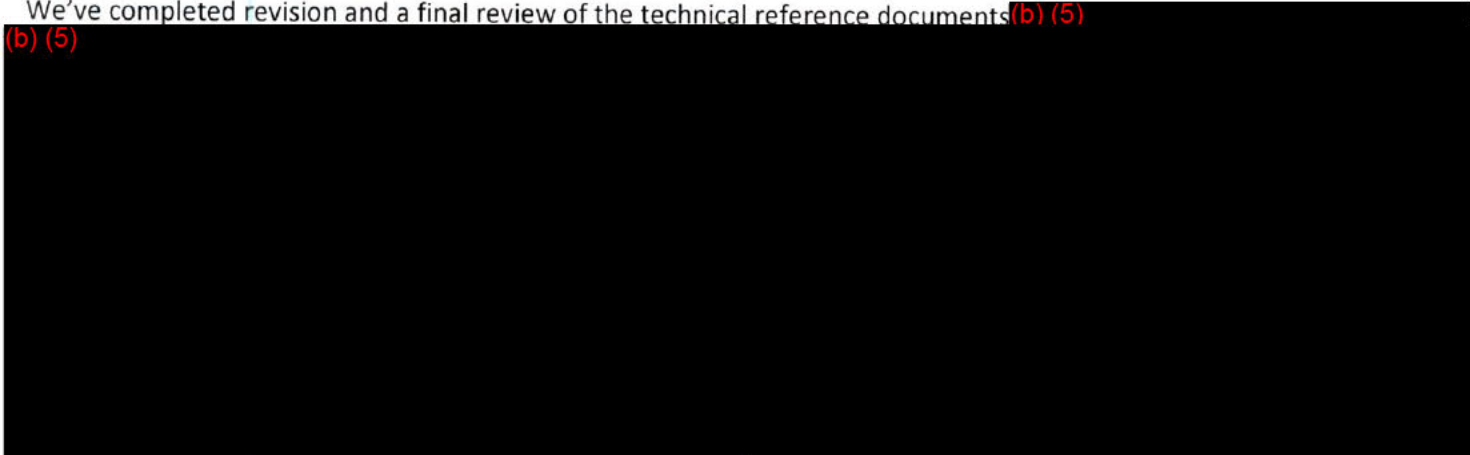
Cc: Lisauskas, Sara

Subject: Technical Descriptions (b) (5)



Hi Alexandra,

We've completed revision and a final review of the technical reference documents (b) (5)



(b) (5)

Let me know if you have any questions or revisions!

Tyler

TYLER FITCH | Research Assistant | 703.225.2865 (o) | tyler.fitch@icfi.com | icfi.com
ICF INTERNATIONAL | 9300 Lee Highway, Fairfax, VA 22031 USA
Connect with us on [social media](#).

Sullivan, Alexandra

From: Sullivan, Alexandra
Sent: Friday, October 31, 2014 5:58 PM
To: Fitch, Tyler
Cc: Lisauskas, Sara
Subject: RE: Technical Descriptions (b) (5)
Attachments: Data Centers_20141016.pdf; Hospital_20141031.docx; Hospital_20141031.pdf; Hotel_20141017.docx; Hotel_20141017.pdf; Medical Office_20141017.pdf; Office_20141031.docx; Office_20141031.pdf; K12 Schools_20141031.docx; K12 Schools_20141031.pdf; Senior Care_20141031.docx; Senior Care_20141031.pdf; Retail_20141031.docx; Retail_20141031.pdf; Residence Hall_20141017.pdf; Supermarket_20141017.pdf; Warehouse_20141017.pdf; Wastewater_20141031.docx; Wastewater_20141031.pdf; Worship_20141031.docx; Worship_20141031.pdf

Tyler,

Okay – I think these are basically ready for posting. (b) (5)

(b) (5)

(b) (5)



Thanks,

Alexandra Sullivan

U.S. EPA
ENERGY STAR
Mail Code 6202J
Washington, DC 20460
202.343.9040
sullivan.alexandra@epa.gov

From: Fitch, Tyler [mailto:Tyler.Fitch@icfi.com]

Sent: Thursday, October 23, 2014 11:49 AM

To: Sullivan, Alexandra

Cc: Lisauskas, Sara

Subject: Technical Descriptions (b) (5)



Hi Alexandra,

We've completed revision and a final review of the technical reference documents. (b) (5)

(b) (5)



Let me know if you have any questions or revisions!

Tyler

TYLER FITCH | Research Assistant | 703.225.2865 (o) | tyler.fitch@icfi.com | icfi.com
ICF INTERNATIONAL | 9300 Lee Highway, Fairfax, VA 22031 USA
Connect with us on [social media](#).

Sullivan, Alexandra

From: Sullivan, Alexandra
Sent: Monday, November 24, 2014 1:51 PM
To: 'Elliott, Douglas'; Schnitzer, Andrea
Cc: Lisauskas, Sara; Cohen, Jonathan; Fitch, Tyler
Subject: RE: Confidence Limit Question

Hi Doug,

When we compute the lookup tables we exclude negative predictions if they occur. In Portfolio Manager, we give the building NA for its score (i.e. we do not provide a score).

Thanks,

Alexandra Sullivan

U.S. EPA
ENERGY STAR
Mail Code 6202J
Washington, DC 20460
202.343.9040
sullivan.alexandra@epa.gov

From: Elliott, Douglas [mailto:Douglas.Elliott@icfi.com]
Sent: Monday, November 24, 2014 1:45 PM
To: Sullivan, Alexandra; Schnitzer, Andrea
Cc: Lisauskas, Sara; Cohen, Jonathan; Fitch, Tyler
Subject: Confidence Limit Question

Alexander,

(b) (5)



Thanks

Doug

Douglas Elliott | Senior Technical Specialist | 703.225.2810 (o) | Douglas.Elliott@icfi.com | icfi.com
ICF INTERNATIONAL | 9300 Lee Highway, Fairfax VA 22031 | www.icfi.com

Sullivan, Alexandra

From: Sullivan, Alexandra
Sent: Tuesday, November 25, 2014 12:53 PM
To: 'Elliott, Douglas'; Schnitzer, Andrea
Cc: Lisauskas, Sara; Cohen, Jonathan; Fitch, Tyler
Subject: RE: Meeting Notes for Confidence Limit Discussion Nov. 25th

Doug,

Thanks for the updated materials.

A few things I'd like to discuss during our call:

(b) (5)



Thanks,

Alexandra Sullivan

U.S. EPA
ENERGY STAR
Mail Code 6202J
Washington, DC 20460
202.343.9040
sullivan.alexandra@epa.gov

From: Elliott, Douglas [mailto:Douglas.Elliott@icfi.com]
Sent: Tuesday, November 25, 2014 8:50 AM

To: Sullivan, Alexandra; Schnitzer, Andrea
Cc: Lisauskas, Sara; Cohen, Jonathan; Fitch, Tyler
Subject: Meeting Notes for Confidence Limit Discussion Nov. 25th

Alexandra and Andy,

The attached files are background materials for today's discussion of confidence limits.

- Errors.112414.docx. This is an update to the methodology description document. Since the last meeting there have been a few improvements to the methodology. Text changes since last week's version are shown using Track Changes. Changes to formulae are highlighted.
- Confidence_Limits_Plots.pdf is an updated set of plots. The package now includes plots of Energy Star Score by Width of Confidence Interval (see pages 11, 22 and 33). Also, the analysis has been expanded to include K12 as well as Office and Retail.
- Confidence_Limit_Analysis.pdf is a table of +/- point ranges at the 95% confidence interval (similar to table 3 in EPA's memo of February 14, 2006). This version differs in that it compares confidence ranges for the EPA/ICF and Scofield methodologies rather than for 90% and 95% confidence.
- Confidence_Limit_Results.xlsx is a spreadsheet containing Energy Star scores and confidence bounds (both EPA/ICF and Scofield) for each model.

We can go over any questions in greater detail during today's call.

Doug

Douglas Elliott | Senior Technical Specialist | 703.225.2810 (o) | Douglas.Elliott@icfi.com | icfi.com
ICF INTERNATIONAL | 9300 Lee Highway, Fairfax VA 22031 | www.icfi.com

Sullivan, Alexandra

From: Sullivan, Alexandra
Sent: Tuesday, December 02, 2014 1:51 PM
To: 'Elliott, Douglas'; Schnitzer, Andrea
Cc: Lisauskas, Sara; Cohen, Jonathan; Fitch, Tyler
Subject: RE: Updated Plots and Tables for Confidence Limit Discussion Dec. 2nd

All,

Good progress. Just so you have it in writing here is how I would organize our next steps and priorities:

(b) (5)



Thanks!

Alexandra Sullivan

U.S. EPA
ENERGY STAR
Mail Code 6202J
Washington, DC 20460
202.343.9040
sullivan.alexandra@epa.gov

From: Elliott, Douglas [mailto:Douglas.Elliott@icfi.com]
Sent: Tuesday, December 02, 2014 11:37 AM
To: Sullivan, Alexandra; Schnitzer, Andrea
Cc: Lisauskas, Sara; Cohen, Jonathan; Fitch, Tyler
Subject: Updated Plots and Tables for Confidence Limit Discussion Dec. 2nd

Alexandra and Andy,

The attached files are background materials for today's discussion of confidence limits.

The Confidence_Limit_Analysis.pdf and Confidence_Limit_Results.xlsx files now include tables for 90% and 95% confidence limits.

The Confidence_Limit_Plots.pdf file has been modified as follows:

- The package now only includes the original plots 9, 10 and 11 (and so forth)
- The plots now include points for both the 90% and 95% confidence limits

- There are two additional confidence limit plots:
 - Plot 4 displays fitted curves for the different confidence limits
 - Plot 5 displays both the original points and the fitted curves
- As before there are plots for Office, Retail and K-12 schools

We can go over any questions during today's call.

Doug

Douglas Elliott | Senior Technical Specialist | 703.225.2810 (o) | Douglas.Elliott@icfi.com | icfi.com
ICF INTERNATIONAL | 9300 Lee Highway, Fairfax VA 22031 | www.icfi.com

Sullivan, Alexandra

From: Sullivan, Alexandra
Sent: Monday, January 05, 2015 8:33 AM
To: 'Fitch, Tyler'; Lisauskas, Sara; Schnitzer, Andrea
Cc: Cohen, Jonathan; Elliott, Douglas
Subject: RE: Prep for 1/8 Meeting

Tyler,

Thanks – this is good to have.

A couple of things:

- The workbook says it is trying to update links when I open it – is it possible to remove those links?
- We are still going to try to fill in the CBECS square foot values right? I think that would also be helpful, even if we don't have the time to do so this week.
- I think I might just pull out a few comparisons into a bullet list for a possible back-up slide on Thursday.

(b) (5)



These are obviously not questions we need to fully explore this week – just some things to consider as we go.

Thanks,

Alexandra Sullivan

U.S. EPA
ENERGY STAR
Mail Code 6202J
Washington, DC 20460
202.343.9040
sullivan.alexandra@epa.gov

From: Fitch, Tyler [<mailto:Tyler.Fitch@icfi.com>]
Sent: Wednesday, December 31, 2014 4:06 PM
To: Lisauskas, Sara; Sullivan, Alexandra; Schnitzer, Andrea
Cc: Cohen, Jonathan; Elliott, Douglas
Subject: RE: Prep for 1/8 Meeting

Hi All,

Updated CBECS vs PM comparison attached. I've included statistics for the PM datasets, filtered for all of the typical outliers except score. Effects were not strong on any statistics, including 2nd-percentile square footage. This was a fairly labor-intensive process. Let me know if another iteration would be appropriate.

Thanks,

Tyler

TYLER FITCH | Research Assistant | 703.225.2865 (o) | tyler.fitch@icfi.com | icfi.com
ICF INTERNATIONAL | 9300 Lee Highway, Fairfax, VA 22031 USA
Connect with us on [social media](#).

From: Lisauskas, Sara
Sent: Tuesday, December 30, 2014 11:33 AM
To: Sullivan.Alexandra@epa.gov; Schnitzer.Andrea@epa.gov
Cc: Cohen, Jonathan; Elliott, Douglas; Fitch, Tyler
Subject: Prep for 1/8 Meeting

Alexandra,

Below are a few items we can discuss in our call today:

- ICF review of questions for 1/8 meeting – We met yesterday to review the questions and determine our response. Our notes are included in red in the attached version of the document.
- CBECS vs. PM comparison – An Excel file is attached.

(b) (5)



Sara

Sullivan, Alexandra

From: Sullivan, Alexandra
Sent: Thursday, January 08, 2015 9:13 AM
To: 'Fitch, Tyler'; Lisauskas, Sara; Schnitzer, Andrea
Cc: Cohen, Jonathan; Elliott, Douglas
Subject: RE: Prep for 1/8 Meeting

Tyler,

Thanks for the update and the nice summary.

(b) (5)



(b) (5)



Thanks,

Alexandra Sullivan

U.S. EPA
ENERGY STAR
Mail Code 6202J
Washington, DC 20460
202.343.9040
sullivan.alexandra@epa.gov

From: Fitch, Tyler [mailto:Tyler.Fitch@icfi.com]
Sent: Tuesday, January 06, 2015 5:10 PM
To: Sullivan, Alexandra; Lisauskas, Sara; Schnitzer, Andrea
Cc: Cohen, Jonathan; Elliott, Douglas
Subject: RE: Prep for 1/8 Meeting

Hi All,

Doug and I have completed work on a revised PM-CBECS comparison graph. This one has static cell references and includes square footage information from the CBECS survey (and other surveys, where applicable). A copy is attached. Additionally, a few facts as summary are included below:

- Because of the pared-down method for doing BI Pulls for the DataTrends work, comparisons are not available for some characteristics for a number of space types.

(b) (5)



(b) (5)

Let me know if any revision is required.

Thanks,

Tyler

TYLER FITCH | Research Assistant | 703.225.2865 (o) | tyler.fitch@icfi.com | icfi.com
ICF INTERNATIONAL | 9300 Lee Highway, Fairfax, VA 22031 USA
Connect with us on [social media](#).

From: Sullivan, Alexandra [<mailto:Sullivan.Alexandra@epa.gov>]
Sent: Monday, January 05, 2015 8:33 AM
To: Fitch, Tyler; Lisauskas, Sara; Schnitzer, Andrea
Cc: Cohen, Jonathan; Elliott, Douglas
Subject: RE: Prep for 1/8 Meeting

Tyler,

Thanks – this is good to have.

A couple of things:

- The workbook says it is trying to update links when I open it – is it possible to remove those links?

- We are still going to try to fill in the CBECS square foot values right? I think that would also be helpful, even if we don't have the time to do so this week.
- I think I might just pull out a few comparisons into a bullet list for a possible back-up slide on Thursday.

(b) (5)



These are obviously not questions we need to fully explore this week – just some things to consider as we go.

Thanks,

Alexandra Sullivan

U.S. EPA
ENERGY STAR
Mail Code 6202J
Washington, DC 20460
202.343.9040
sullivan.alexandra@epa.gov

From: Fitch, Tyler [<mailto:Tyler.Fitch@icfi.com>]

Sent: Wednesday, December 31, 2014 4:06 PM

To: Lisauskas, Sara; Sullivan, Alexandra; Schnitzer, Andrea

Cc: Cohen, Jonathan; Elliott, Douglas

Subject: RE: Prep for 1/8 Meeting

Hi All,

Updated CBECS vs PM comparison attached. I've included statistics for the PM datasets, filtered for all of the typical outliers except score. Effects were not strong on any statistics, including 2nd-percentile square footage. This was a fairly labor-intensive process. Let me know if another iteration would be appropriate.

Thanks,

Tyler

TYLER FITCH | Research Assistant | 703.225.2865 (o) | tyler.fitch@icfi.com | icfi.com
ICF INTERNATIONAL | 9300 Lee Highway, Fairfax, VA 22031 USA
Connect with us on [social media](#).

From: Lisauskas, Sara

Sent: Tuesday, December 30, 2014 11:33 AM

To: Sullivan.Alexandra@epa.gov; Schnitzer.Andrea@epa.gov

Cc: Cohen, Jonathan; Elliott, Douglas; Fitch, Tyler
Subject: Prep for 1/8 Meeting

Alexandra,

Below are a few items we can discuss in our call today:

- ICF review of questions for 1/8 meeting – We met yesterday to review the questions and determine our response. Our notes are included in red in the attached version of the document.
- CBECS vs. PM comparison – An Excel file is attached.

(b) (5)



Sara

Sullivan, Alexandra

From: Sullivan, Alexandra
Sent: Tuesday, January 27, 2015 3:04 PM
To: 'Elliott, Douglas'; Schnitzer, Andrea
Cc: Lisauskas, Sara; Cohen, Jonathan; Fitch, Tyler; Gauvin, Michel; Kerrigan, Brett
Subject: RE: Documents for Confidence Limit Discussion Jan. 27th
Attachments: Ideas for Analysis - January 2015.docx

All,

Great progress on our uncertainty discussion. As we discussed we will have 3 final "memos" about uncertainty:

(b) (5)



Finally, for everyone's benefit I'm attaching the brainstorm notes from when Sara and Michel were here in DC. I do want to step back to look at this list together and consider a more formal approach to getting through each topic area. But, since we've already begun work on uncertainty and dependent variable, I do not want to lose that progress. So, I'd like to wrap those projects up and then think more about the big picture of the full suite of analyses.

Thanks,

Alexandra Sullivan

U.S. EPA
ENERGY STAR
Mail Code 6202J
Washington, DC 20460
202.343.9040
sullivan.alexandra@epa.gov

From: Elliott, Douglas [mailto:Douglas.Elliott@icfi.com]
Sent: Tuesday, January 27, 2015 7:57 AM
To: Sullivan, Alexandra; Schnitzer, Andrea
Cc: Lisauskas, Sara; Cohen, Jonathan; Fitch, Tyler
Subject: Documents for Confidence Limit Discussion Jan. 27th

Alexandra and Andy,

The attached files are background materials for today's discussion of confidence limits.

Uncertainty.0102615.docx is a revision of the uncertainty calculations memo or "Background/Method memo." The main changes were to tidy up the references and include the SAS code as an Appendix. There are also a few minor improvements to the text

Summary of Uncertainty Analysis Results 20150127.docx is a first draft of the results memo. We anticipate this will be revised after today's discussion.

The SAS code can also be provided as a separate text file if that would be helpful.

Regards,

Doug






Douglas Elliott | Senior Technical Specialist | 703.225.2810 (o) | Douglas.Elliott@icfi.com | icfi.com
ICF INTERNATIONAL | 9300 Lee Highway, Fairfax VA 22031 | www.icfi.com

{In Archive} RE: Sensitivity Analysis - Looking at Office PM and (b) (5) data

Alexandra Sullivan to: Elliott, Douglas

05/05/2009 12:02 PM

Archive: This message is being viewed in an archive.

	Lisauskas, Sara	Sensitivity Analysis - Looking at Office PM and (b) (5) data
	Alexandra Sullivan	<i>Sara, Can you please re-send the zip file as .piz?</i>
	Elliott, Douglas	<i>Douglas Elliott Senior Consultant</i>
	Alexandra Sullivan	<i>Thanks! Alexandra Sullivan U.S. EPA</i>
	Alexandra Sullivan	<i>Sara, Thanks for the analysis. I had trouble with the spreadsheet being</i>

Thanks!

Alexandra Sullivan

U.S. EPA
ENERGY STAR
Mail Code 6202J
Washington, DC 20460
202.343.9040
sullivan.alexandra@epa.gov

"Elliott, Douglas" Douglas Elliott Senior Consultant

05/05/2009 11:43:06 AM

From: "Elliott, Douglas" <DElliott@icfi.com>
To: Alexandra Sullivan/DC/USEPA/US@EPA
Date: 05/05/2009 11:43 AM
Subject: RE: Sensitivity Analysis - Looking at Office PM and (b) (5) data

Douglas Elliott
Senior Consultant
EEA, an ICF International Company
(703) 373-6626 (Direct)
delliott@icfi.com

-----Original Message-----

From: Sullivan.Alexandra@epamail.epa.gov
[mailto:Sullivan.Alexandra@epamail.epa.gov]
Sent: Tuesday, May 05, 2009 11:34 AM
To: Lisauskas, Sara
Cc: Kaufman, Andrew; Rid.Amatullah@epamail.epa.gov; Elliott, Douglas
Subject: Re: Sensitivity Analysis - Looking at Office PM and (b) (5) data

Sara,

Can you please re-send the zip file as .piz?

Thanks,

Alexandra Sullivan

U.S. EPA
ENERGY STAR
Mail Code 6202J
Washington, DC 20460
202.343.9040
sullivan.alexandra@epa.gov

From: "Lisauskas, Sara" <SLisauskas@icfi.com>

To: Alexandra Sullivan/DC/USEPA/US@EPA, Amatullah
Rid/DC/USEPA/US@EPA

Cc: "Kaufman, Andrew" <AKaufman@icfi.com>, "Elliott, Douglas"
<DElliott@icfi.com>

Date: 05/05/2009 09:49 AM

Subject: Sensitivity Analysis - Looking at Office PM and (b) (5)
(b) (5) data

Alexandra and Amatullah,

Attached is an update on the sensitivity analysis. I added a new Office-PM worksheet with the office buildings from Portfolio Manager, and added some tables and graphs to the Office Sensitivity worksheet. It is not as complete as I would like it to be, since I had some trouble with Excel not handling the large amount of PM Data well, but it gives us something to look at today.

For the office buildings in Portfolio Manager, I used the data from the steam analysis, but had to apply a few filters to the data. We want to understand what is going on at the high and low end of each of the variables, but some of the really extreme values can mask patterns. I

(b) (5)

I had intended to replicate all of the tables graphs that we completed

for the CBECS data, but Excel wasn't able to process of all the PM Data, so I had to be selective on the graphs that I could include. I did replicate the summary tables with the Range of Values and the EUI Contribution for the PM Data. For the graphs, I picked a few that could illustrate the issues we need to examine.

(b) (5)

For next steps, we should consider the following:

Consider what data we want to request from SRA. We would like to add Retail PM data to this analysis, but if we are doing a data request, we might want to be more broad in scope.

(b) (5)

Determine whether there are additional graphs that we want to create.

When we receive data, replicate the analysis on other space types. We can discuss further in our call today.

Sara

Sara Lisauskas
ICF International
978-358-7680
slisauskas@icfi.com

***** ATTACHMENT NOT DELIVERED *****

This Email message contained an attachment named

Sensitivity Analysis_20090504.zip

which may be a computer program. This attached computer program could contain a computer virus which could cause harm to EPA's computers, network, and data. The attachment has been deleted.

This was done to limit the distribution of computer viruses introduced into the EPA network. EPA is deleting all computer program attachments sent from the Internet into the agency via Email.

If the message sender is known and the attachment was legitimate, you should contact the sender and request that they rename the file name extension and resend the Email with the renamed attachment. After receiving the revised Email, containing the renamed attachment, you can rename the file extension to its correct name.

For further information, please contact the EPA Call Center at (866) 411-4EPA (4372). The TDD number is (866) 489-4900.

***** ATTACHMENT NOT DELIVERED *****

[attachment "(b) (5)" comparison_20090504.xls" deleted by Alexandra Sullivan/DC/USEPA/US]

[attachment "Sensitivity Analysis_20090504.piz" deleted by Alexandra Sullivan/DC/USEPA/US]

{In Archive} Re: Sensitivity Analysis - Looking at Office PM and Verizon Wireless data



Alexandra Sullivan to: LISAUSKAS, Sara

05/05/2009 12:55 PM

Cc: "Kaufman, Andrew", Amatullah Rid, "Elliott, Douglas"

Archive: This message is being viewed in an archive.

	LISAUSKAS, Sara	Sensitivity Analysis - Looking at Office PM and (b) (5) data
	Alexandra Sullivan	Sara, Can you please re-send the zip file as .piz?
	Elliott, Douglas	Douglas Elliott Senior Consultant
	Alexandra Sullivan	Thanks! Alexandra Sullivan U.S. EPA
	Alexandra Sullivan	Sara, Thanks for the analysis. I had trouble with the spreadsheet being

Sara,

Thanks for the analysis. I had trouble with the spreadsheet being slow, too. We should probably separate Office and Retail and then store more things (like the rating and density values) as static values rather than formulas. Also, when I opened up the spreadsheet it said it couldn't update some information linked from other documents. We should check into that.

(b) (5)

I agree that we should request data, and we should just submit our request whenever we have it fully defined. I can tell you it will be delayed because SRA is in score change mode. But, better to get the request on the list, even if it is many weeks out. I think the office and Retail should be enough for us to answer the question of what we want to do about this issue. From that perspective, it may be easier to just ask for Retail. Then, once we have made the decision, we can ask for other spaces separately.

(b) (5)

Look forward to discussing more shortly.

Alexandra Sullivan

U.S. EPA
ENERGY STAR

Mail Code 6202J
Washington, DC 20460
202.343.9040
sullivan.alexandra@epa.gov

"Lisauskas, Sara" Alexandra and Amatullah,

05/05/2009 09:49:15 AM

From: "Lisauskas, Sara" <SLisauskas@icfi.com>
To: Alexandra Sullivan/DC/USEPA/US@EPA, Amatullah Rid/DC/USEPA/US@EPA
Cc: "Kaufman, Andrew" <AKaufman@icfi.com>, "Elliott, Douglas" <DElliott@icfi.com>
Date: 05/05/2009 09:49 AM
Subject: Sensitivity Analysis - Looking at Office PM and (b) (5) data

Alexandra and Amatullah,

Attached is an update on the sensitivity analysis. I added a new Office-PM worksheet with the office buildings from Portfolio Manager, and added some tables and graphs to the Office Sensitivity worksheet. It is not as complete as I would like it to be, since I had some trouble with Excel not handling the large amount of PM Data well, but it gives us something to look at today.

For the office buildings in Portfolio Manager, I used the data from the steam analysis, but had to apply a few filters to the data. We want to understand what is going on at the high and low end of each of the variables, but some of the really extreme values can mask patterns. (b) (5)

(b) (5)

I had intended to replicate all of the tables graphs that we completed for the CBECS data, but Excel wasn't able to process all of the PM Data, so I had to be selective on the graphs that I could include. I did replicate the summary tables with the Range of Values and the EUI Contribution for the PM Data. For the graphs, I picked a few that could illustrate the issues we need to examine.

(b) (5)

(b) (5)

For next steps, we should consider the following:

- Consider what data we want to request from SRA. We would like to add Retail PM data to this analysis, but if we are doing a data request, we might want to be more broad in scope.

(b) (5)

- Determine whether there are additional graphs that we want to create.
- When we receive data, replicate the analysis on other space types.

We can discuss further in our call today.

Sara

Sara Lisauskas
ICF International
978-358-7680
slisauskas@icfi.com

***** ATTACHMENT NOT DELIVERED *****

This Email message contained an attachment named

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For further information, please contact the EPA Call Center at (866) 411-4EPA (4372). The TDD number is (866) 489-4900.

***** ATTACHMENT NOT DELIVERED *****

[attachment "(b) (5) comparison_20090504.xls" deleted by Alexandra Sullivan/DC/USEPA/US]



{In Archive} RE: Sensitivity Analysis - Draft Memo with Options

Lisauskas, Sara to: Alexandra Sullivan

05/27/2009 08:46 AM

Cc: "Kaufman, Andrew", Amatullah Rid, "Elliott, Douglas"

Archive:

This message is being viewed in an archive.

	Lisauskas, Sara	Sensitivity Analysis - Draft Memo with Options
	Alexandra Sullivan	<i>Sara, I think this looks great. A few quick observations:</i>
	Lisauskas, Sara	<i>You can just call me today. Sara</i>

You can just call me today.

Sara

-----Original Message-----

From: Sullivan.Alexandra@epamail.epa.gov

[mailto:Sullivan.Alexandra@epamail.epa.gov]

Sent: Wednesday, May 27, 2009 8:38 AM

To: Lisauskas, Sara

Cc: Kaufman, Andrew; Rid.Amatullah@epamail.epa.gov;

Elliott, Douglas

Subject: Re: Sensitivity Analysis - Draft Memo with Options

Sara,

I think this looks great. A few quick observations:

Retail

(b) (5)

Office

(b) (5)

Timing

(b) (5)

Next Steps

(b) (5)

Looking forward to our chat. Please let me know who I'm calling in!

Thanks,

Alexandra Sullivan

U.S. EPA
ENERGY STAR
Mail Code 6202J
Washington, DC 20460
202.343.9040
sullivan.alexandra@epa.gov

From: "Lisauskas, Sara" <SLisauskas@icfi.com>

To: Alexandra Sullivan/DC/USEPA/US@EPA,
Amatullah
Rid/DC/USEPA/US@EPA

Cc: "Kaufman, Andrew" <AKaufman@icfi.com>,
"Elliott, Douglas"
<DElliott@icfi.com>

Date: 05/26/2009 11:47 PM

Subject: Sensitivity Analysis - Draft Memo with
Options

Alexandra and Amatullah,

Attached is a first draft of a memo describing the
sensitivity of the
Retail and Office models to extreme values for
operating
characteristics. (b) (5)

(b) (5)

(b) (5)

Sara

Sara Lisauskas
ICF International
978-358-7680
slisauskas@icfi.com
[attachment "Model Sensitivity_20090526.doc" deleted
by Alexandra
Sullivan/DC/USEPA/US] [attachment "Sensitivity
Analysis_20090526.piz"
deleted by Alexandra Sullivan/DC/USEPA/US]




{In Archive} RE: Sensitivity Analysis - Draft Memo for Mike Zatz 

Alexandra Sullivan to: Lisauskas, Sara

06/17/2009 12:47 PM

Cc: "Kaufman, Andrew", Amatullah Rid, "Elliott, Douglas"

Archive: This message is being viewed in an archive.

Date		Subject	
	Alexandra Sullivan	06/09/2009 10:50 AM	Re: Sensitivity Analysis - Draft
	Lisauskas, Sara	06/16/2009 01:45 PM	RE: Sensitivity Analysis
	Alexandra Sullivan	06/17/2009 12:47 PM	RE: Sensitivity An

Sara,

Looks good! I made a few small edits, to reflect the receipt of data from SRA (woo hoo!). I will plan to send this to Mike Zatz later today.

Thanks,

Alexandra Sullivan

U.S. EPA
ENERGY STAR
Mail Code 6202J
Washington, DC 20460
202.343.9040
sullivan.alexandra@epa.gov



Model Sensitivity_20090617.doc

"Lisauskas, Sara" Alexandra, Attached is a new version of the me...

06/16/2009 01:45:22 PM

From: "Lisauskas, Sara" <SLisauskas@icfi.com>
To: Alexandra Sullivan/DC/USEPA/US@EPA
Cc: "Kaufman, Andrew" <AKaufman@icfi.com>, Amatullah Rid/DC/USEPA/US@EPA, "Elliott, Douglas" <DElliott@icfi.com>
Date: 06/16/2009 01:45 PM
Subject: RE: Sensitivity Analysis - Draft Memo for Mike Zatz

Alexandra,

Attached is a new version of the memo with the revised graphs and next steps.

Sara

-----Original Message-----

From: Sullivan.Alexandra@epamail.epa.gov

[mailto:Sullivan.Alexandra@epamail.epa.gov]
Sent: Tuesday, June 09, 2009 10:50 AM
To: Lissauskas, Sara
Cc: Kaufman, Andrew; Rid.Amatullah@epamail.epa.gov; Elliott, Douglas
Subject: Re: Sensitivity Analysis - Draft Memo for Mike Zatz

Sara,

I think this looks good, and we should be able to share it with Mike sometime this week.

My two comments are:

(b) (5)

2 - Next Steps - Let's try to get a bit more specific on the next steps (for our selves, too) so we can note exactly what we want to do with the data we have and what data we've requested from SRA. We can discuss this a little at our meeting tomorrow.

Thanks,

Alexandra Sullivan

U.S. EPA
ENERGY STAR
Mail Code 6202J
Washington, DC 20460
202.343.9040
sullivan.alexandra@epa.gov

From: "Lissauskas, Sara" <SLissauskas@icfi.com>

To: Alexandra Sullivan/DC/USEPA/US@EPA, Amatullah
Rid/DC/USEPA/US@EPA

Cc: "Kaufman, Andrew" <AKaufman@icfi.com>, "Elliott, Douglas"
<DElliott@icfi.com>

Date: 06/03/2009 04:29 PM

Subject: Sensitivity Analysis - Draft Memo for Mike Zatz

Alexandra and Amatullah,

Attached is an updated memo describing the sensitivity of the Retail and Office models to extreme values for operating characteristics. We incorporated the key graphs and updated some text, so that you can share this version with Mike Zatz. We'll pursue the other next steps we discussed after we finish up the Vacancy analysis and Mixed Use Guidance documentation.

Sara

Sara Lisauskas
ICF International
978-358-7680

slisauskas@icfi.com

[attachment "Model Sensitivity_20090603.doc" deleted by Alexandra Sullivan/DC/USEPA/US]

[attachment "Model Sensitivity_20090616.doc" deleted by Alexandra Sullivan/DC/USEPA/US]



{In Archive} RE: Sensitivity Analysis - Draft Memo for Mike Zatz

Lisauskas, Sara to: Alexandra Sullivan

06/16/2009 01:45 PM

Cc: "Kaufman, Andrew", Amatullah Rid, "Elliott, Douglas"

History: This message has been replied to.
Archive: This message is being viewed in an archive.

Date		Subject		
	Alexandra Sullivan	06/09/2009 10:50 AM		Re: Sensitivity Analysis - Draft
	Lisauskas, Sara	06/16/2009 01:45 PM		RE: Sensitivity Analysis -
	Alexandra Sullivan	06/17/2009 12:47 PM		RE: Sensitivity An

Alexandra,

Attached is a new version of the memo with the revised graphs and next steps.

Sara

-----Original Message-----

From: Sullivan.Alexandra@epamail.epa.gov

[mailto:Sullivan.Alexandra@epamail.epa.gov]

Sent: Tuesday, June 09, 2009 10:50 AM

To: Lisauskas, Sara

Cc: Kaufman, Andrew; Rid.Amatullah@epamail.epa.gov;

Elliott, Douglas

Subject: Re: Sensitivity Analysis - Draft Memo for Mike Zatz

Sara,

I think this looks good, and we should be able to share it with Mike sometime this week.

My two comments are:

(b) (5)

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want to do with the
data we have and what data we've requested from SRA.
We can discuss
this a little at our meeting tomorrow.

Thanks,

Alexandra Sullivan

U.S. EPA
ENERGY STAR
Mail Code 6202J
Washington, DC 20460
202.343.9040
sullivan.alexandra@epa.gov

From: "Lisaukas, Sara" <SLisaukas@icfi.com>

To: Alexandra Sullivan/DC/USEPA/US@EPA,
Amatullah
Rid/DC/USEPA/US@EPA

Cc: "Kaufman, Andrew" <AKaufman@icfi.com>,
"Elliott, Douglas"
<DElliott@icfi.com>

Date: 06/03/2009 04:29 PM

Subject: Sensitivity Analysis - Draft Memo for
Mike Zatz

Alexandra and Amatullah,

Attached is an updated memo describing the
sensitivity of the Retail and
Office models to extreme values for operating
characteristics. We
incorporated the key graphs and updated some text, so
that you can share
this version with Mike Zatz. We'll pursue the other
next steps we
discussed after we finish up the Vacancy analysis and
Mixed Use Guidance
documentation.

Sara

Sara Lisauskas
ICF International
978-358-7680
slisauskas@icfi.com
[attachment "Model Sensitivity_20090603.doc" deleted
by Alexandra
Sullivan/DC/USEPA/US]



Model Sensitivity_20090616.doc










{In Archive} Re: Sensitivity Analysis - Draft Memo for Mike Zatz 

Alexandra Sullivan to: LISAUSKAS, Sara

06/09/2009 10:50 AM

Cc: "Kaufman, Andrew", Amatullah Rid, "Elliott, Douglas"

Archive: This message is being viewed in an archive.

Sender	Sender	Date	Subject
 LISAUSKAS, Sara	LISAUSKAS, Sara	06/03/2009 04:29 PM	  Sensitiv
 Alexandra Sullivan	Alexandra Sullivan	06/09/2009 10:50 AM	F
 LISAUSKAS, Sara	LISAUSKAS, Sara	06/16/2009 01:45 PM	 
 Alexandra Sullivan	Alexandra Sullivan	06/17/2009 12:47 PM	

Sara,

I think this looks good, and we should be able to share it with Mike sometime this week.

My two comments are:

(b) (5)

2 - Next Steps - Let's try to get a bit more specific on the next steps (for our selves, too) so we can note exactly what we want to do with the data we have and what data we've requested from SRA. We can discuss this a little at our meeting tomorrow.

Thanks,

Alexandra Sullivan

U.S. EPA
ENERGY STAR
Mail Code 6202J
Washington, DC 20460
202.343.9040
sullivan.alexandra@epa.gov

"LISAUSKAS, Sara" Alexandra and Amatullah,

06/03/2009 04:29:05 PM

From: "LISAUSKAS, Sara" <SLISAUSKAS@icfi.com>
To: Alexandra Sullivan/DC/USEPA/US@EPA, Amatullah Rid/DC/USEPA/US@EPA
Cc: "Kaufman, Andrew" <AKaufman@icfi.com>, "Elliott, Douglas" <DElliott@icfi.com>
Date: 06/03/2009 04:29 PM
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Sara

Sara Lisauskas

ICF International

978-358-7680

slisauskas@icfi.com

[attachment "Model Sensitivity_20090603.doc" deleted by Alexandra Sullivan/DC/USEPA/US]





{In Archive} Re: Sensitivity Analysis - Draft Memo for Mike Zatz 

Alexandra Sullivan to: Lisauskas, Sara

06/09/2009 10:50 AM

Cc: "Kaufman, Andrew", Amatullah Rid, "Elliott, Douglas"

Archive: This message is being viewed in an archive.

	Lisauskas, Sara	Sensitivity Analysis - Draft Memo for Mike Zatz
	Alexandra Sullivan	<i>Sara, I think this looks good, and we should be able to share it with Mi</i>
	Lisauskas, Sara	<i>Alexandra, Attached is a new version of the memo with the revis</i>
	Alexandra Sullivan	<i>Sara, Looks good! I made a few small edits, to reflect the</i>

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06/03/2009 04:29:05 PM

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